

REMARKS/ARGUMENTS

Reconsideration of the application is requested.

Claims 1-24 and 26-39 are now in the application. Claims 19, 26 and 37 have been amended. Claim 25 has been canceled. Claim 39 has been added.

More specifically, claim 19 has been amended by incorporating therein the subject matter of claim 25. In light of the allowability of the latter, claim 19 is now in condition for allowance.

The dependency of claim 26 has been adapted to the cancellation of claim 25.

The method claim 37 has been amended by incorporating the limitations believed to be responsible for the indicated allowability of claim 25. That is, at least 80% of the total charge of first conductivity within the channel region is in the channel conduction region. Claims 37 and 38 are believed to be allowable as well.

Claim 39 has been added as a picture claim that is directed to the embodiments illustrated in the figures.

The new claim 39 is also patentable over the prior art of record. Specifically, neither Ueno nor Teng, nor the combination for that matter, fairly suggest an inhomogeneous (i.e., uneven) doping for the lateral channel of a semiconductor structure serving as a current conductor in the vertical direction, that is perpendicularly to the main surface of the component. Furthermore, the

semiconductor elements described by the references Ueno and Teng are clearly different from the claimed subject matter, both in terms of functionality and in terms of structure.

In summary, none of the references, whether taken alone or in any combination, either show or suggest the features of any of the claims. All of the claims are believed to be in condition for allowance.

In view of the foregoing, reconsideration and the allowance of claims 1-24 and 26-39 are solicited.

If an extension of time is necessary for this paper, petition for extension is herewith made. Please charge any fees which might be due with respect to Sections 1.16 and 1.17 to the Deposit Account of Lerner Greenberg Sterner LLP, No. 12-1099.

Respectfully submitted,

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